

Outline of Microarray Chip Technology approach

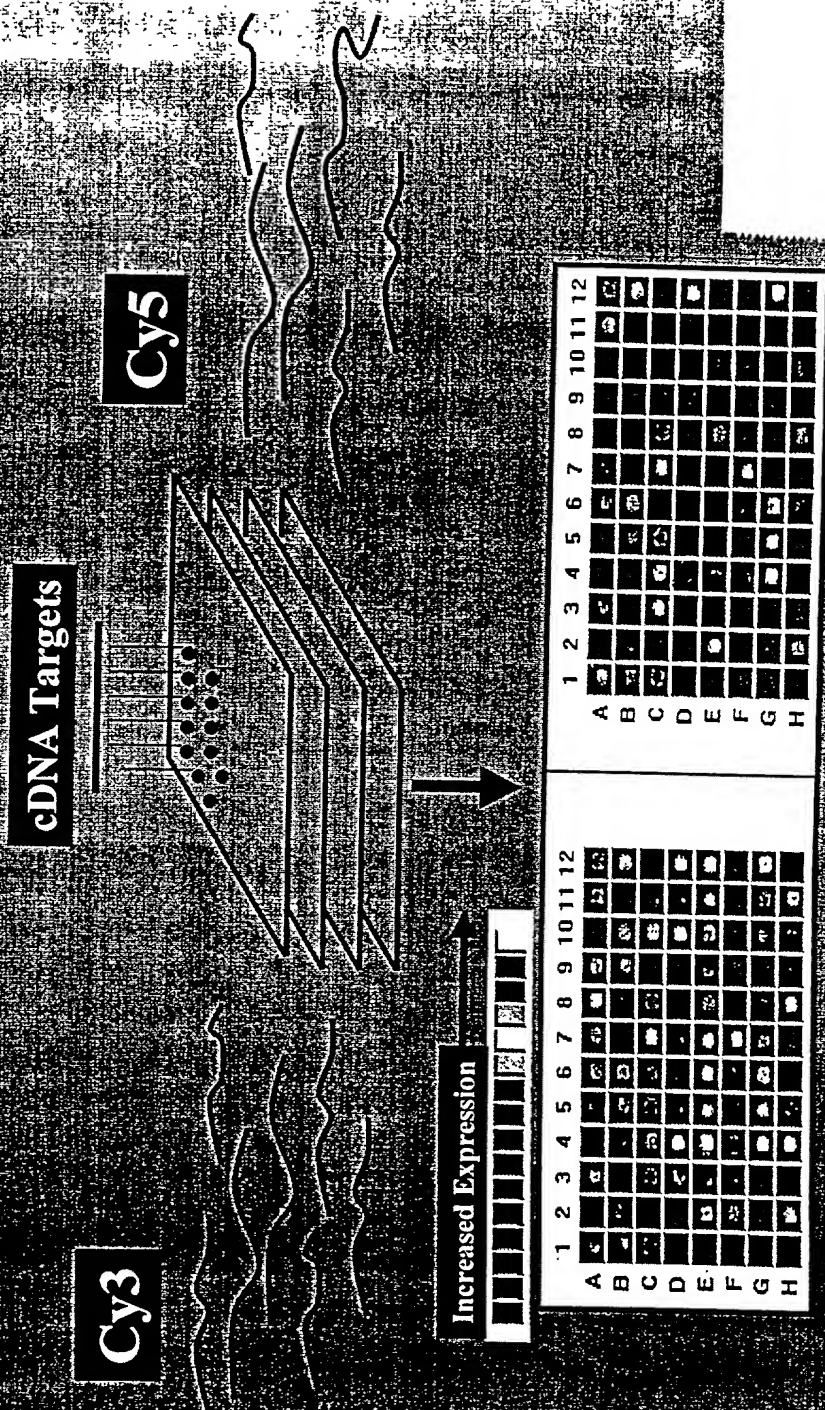


FIG. 1

General protocol for *in-vivo* whole gene CD8 T cell priming

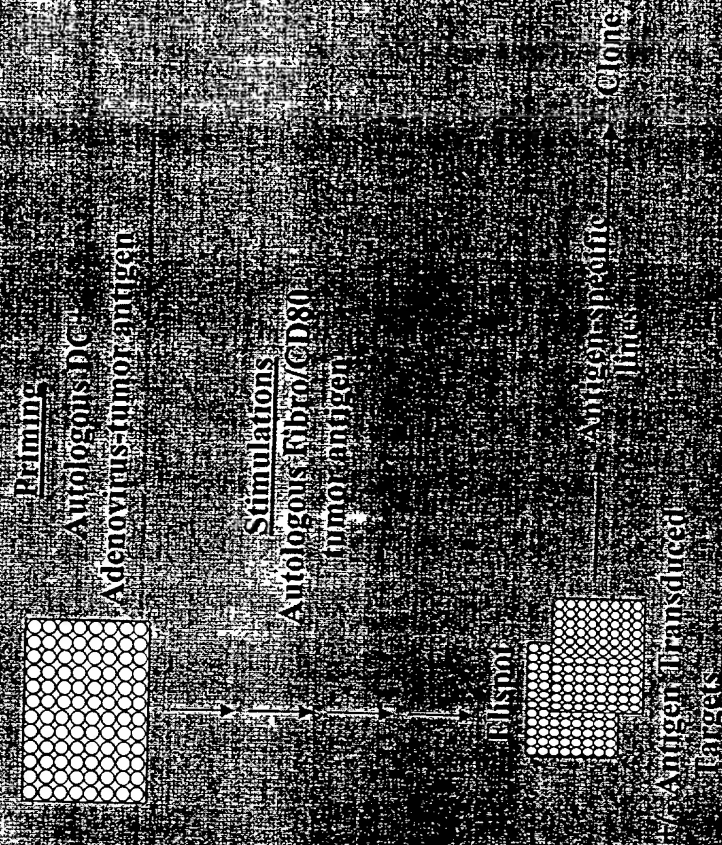


FIG. 2

General protocol for *in-vitro* whole gene CD4 T cell priming

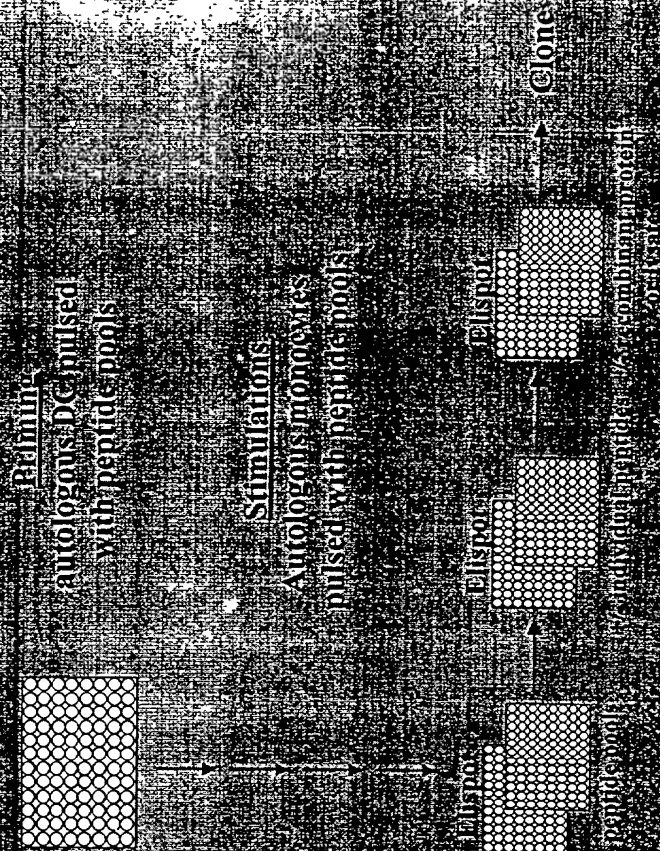


FIG. 3

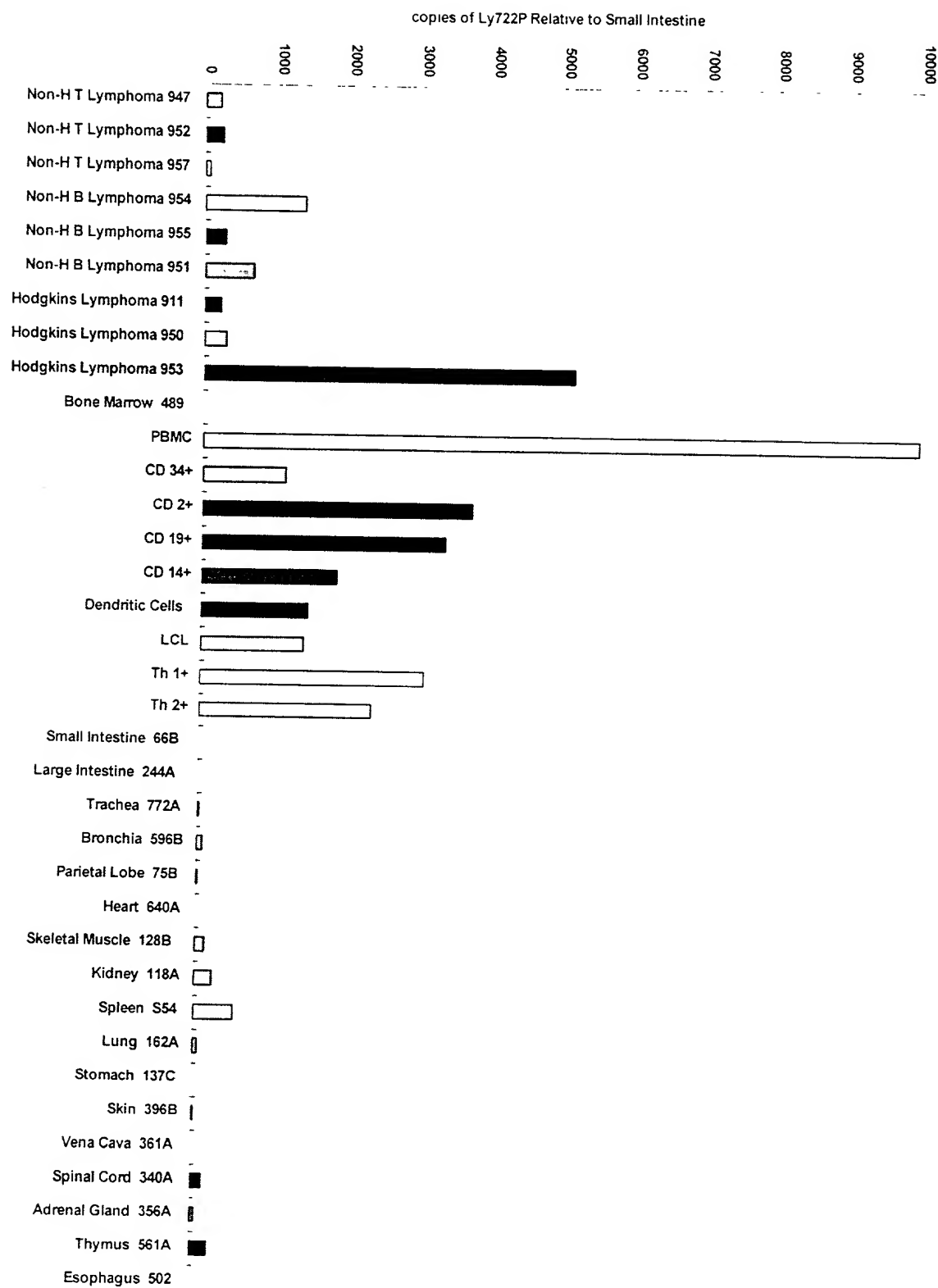


FIG. 4

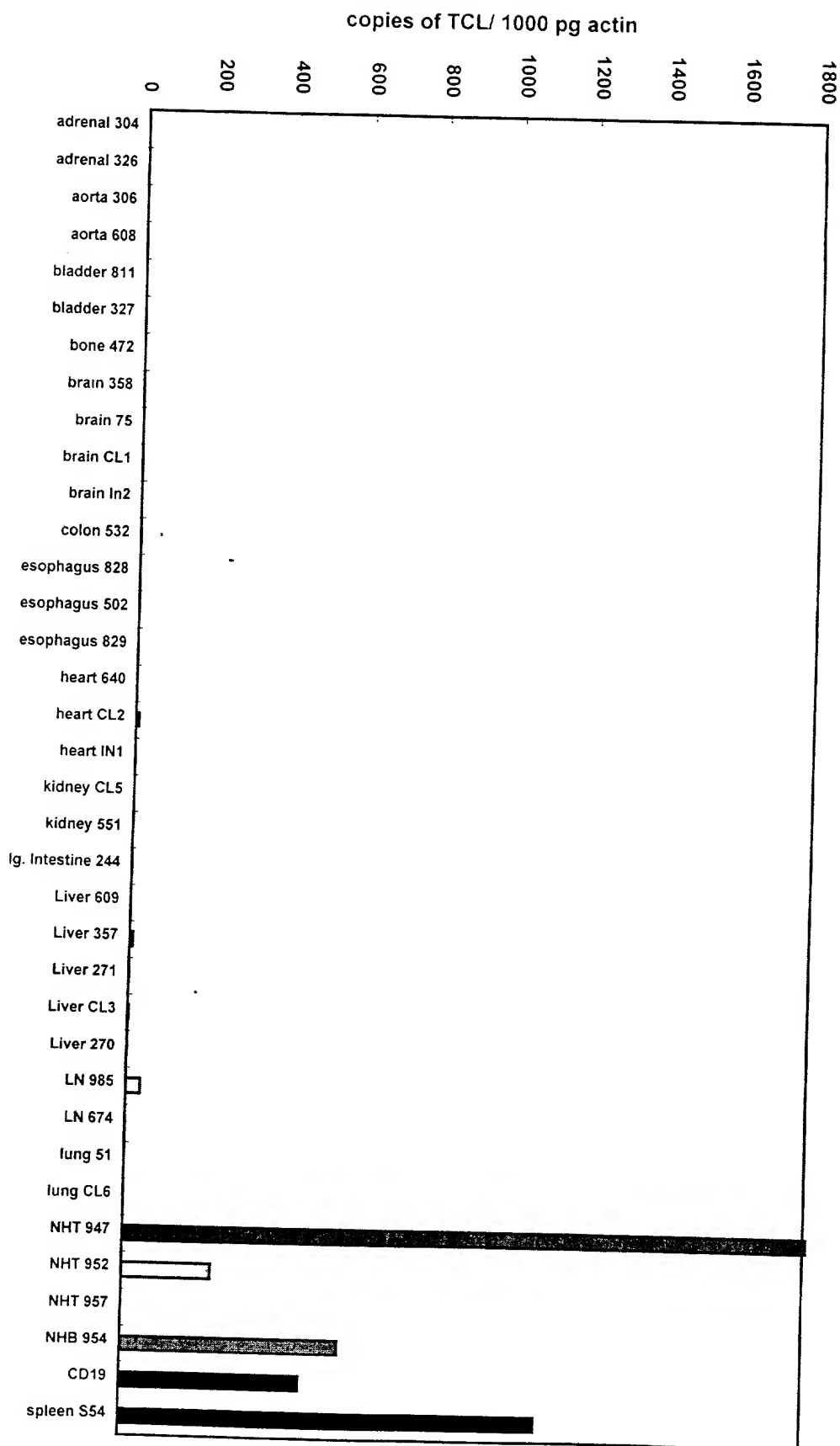


FIG. 5

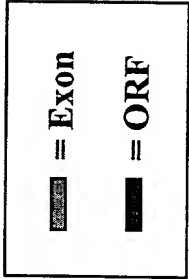
Chromosome 1:



LS#368109.1



LS#1384258.1



Ly1448P



SPAP1



FIG. 6

A - AMPHI mid points of blocks.
R - Residues matching the Rothbard/Taylor motif.
D - Residues matching the IAd motif.
d - Residues matching the IEd motif.

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      5   10   15   20   25   30   35   40   45   50   55   60   65   70   75
MGKKTQRSLSAELEIPAVKESDAGKYYCRADNGHVPIQSKVVNIIPVRIPVSRPVLTLRSPGAQAQAVGDLLELHCE
.....AAAA.....AAAAA.....AAAAAAAAA.....
.....RRRR.....RRRR.....R
.....DDDDDD..DDDDDD.....
.....

      80   85   90   95  100  105  110  115  120  125  130  135  140  145  150
ALRGSPPILYQFYHEDVTLGNSSAPSGGGASFNLSLTAEHSGNYSCAANGLGAQCSEAVPVSISGPDGYRRDLM
.....AAAAA.AAA.....AAAAA...
RRR.....RRRR.....RRR
.....DDDDDD.....
.....

     155  160  165  170  175  180  185  190  195  200  205  210  215  220  225
TAGVLWGLFGVLGFTGVALLLYALFHKISGESSATNEPRGASRPNPQEFTYSSPTPDMEELQPVYVNVGSVDVDV
.....AAAAA.....AAAAA.....
R.RRRRRRRRRRRRR.....RRRR.....RR
.....DDDDDD..DDDDDD.....DDD
.....

     230  235  240  245  250  255  260  265  270  275  280  285  290  295  300
VYSQVWSMQQPESANIRTLLENKDSQVIYSSVKKS
.....AAAAA.....
RRR.....RRRR.....
DDD.....
.....

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FIG. 7

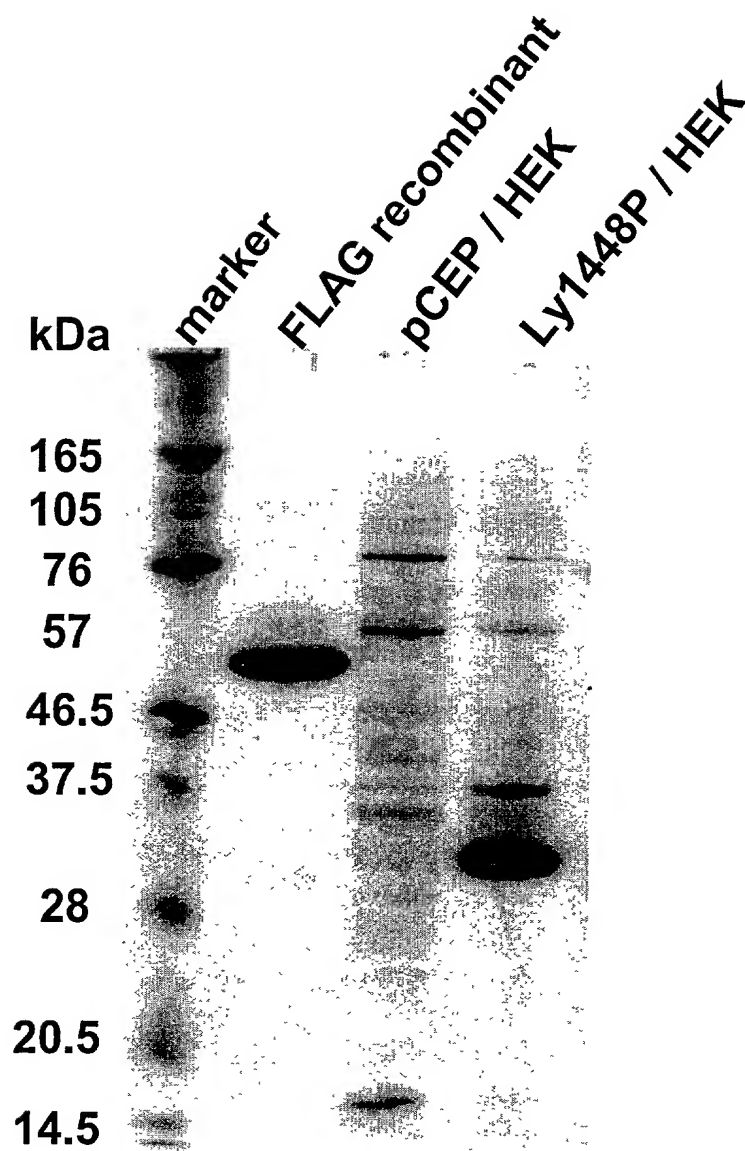


FIG. 8

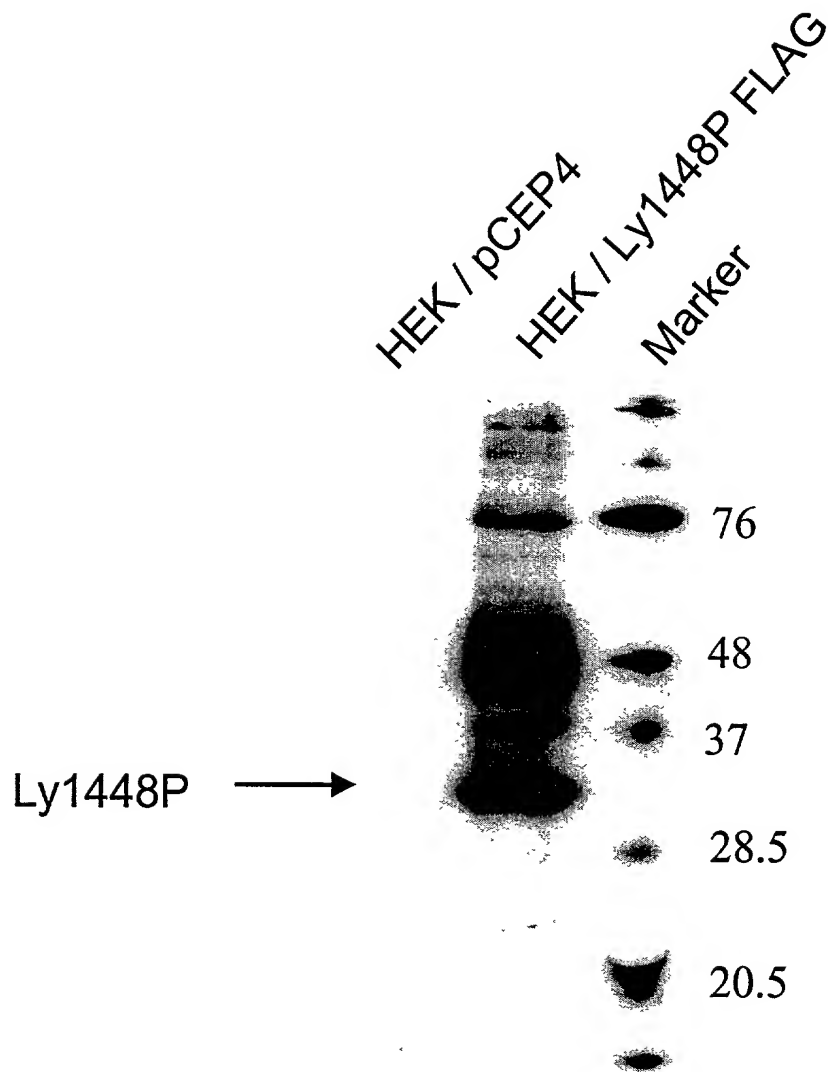


FIG. 9